

CAD Course Syllabus

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Introduction

Industrial Technology Education prepares today's youth for the technological society in which We live. The study of technology provides important concepts and skills that will help the students become lifelong learners. Technological concepts and skills are explored by the students through the processes and systems of: research, observation, application, and testing. The students investigate concepts and principles of technology with the direct integration of mathematics, reading, writing, and ethics. Management skills, teamwork, and cooperation in conjunction with career exploration are essential components to the successful completion of the course.

Course Description

The Intro to CAD course is designed to provide an opportunity to develop a basic background or career related skill in CAD (Computer Aided Design). The students will be introduced to the areas of mechanical drafting which will include single and three view drawings, isometric, oblique and sectional drawings. The students will also learn fundamentals of architectural drafting through drawing floor, elevation, plot, and electrical plans. The third element will be technical illustrating which will involve drawing illustrations of a technical object.

Outcomes/Expectations

Upon completion of the Intro to CAD course, students will understand:

- Mechanical and architectural scales
- Line symbols and terms
- Computer hardware and software used in CAD
- CAD single and three view, isometric, oblique, and sectional drawings
- Floor, elevation, and electrical plans.

Materials: 2 mechanical pencils with erasers, folder, paper, and ruler

Evaluation

Assessments

- a. 25% Quizzes, test and final exam.
- b. 50% Assignments and laboratory activities.
- c. 25% Attendance, clean up, cooperation and attitude.
- d. Extra Credit determined by instructor (Extra Engines)
A= 100-90%

B= 89-80%

C= 79-70%

D= 69-60%

F= 59% or below
- e. Grades will be posted on A-H Connect and updated every week or two depending on student workings. If more frequent grade identification is need it can be obtained through e-mail. francis.kratochvill@anoka.k12.mn.us